

SEQUENCE LISTING

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MICHELSON, SUSAN
ZIPETO, DONATO

<120> VECTOR DERIVED FROM ANTIBODIES FOR TRANSFERRING SUBSTANCES INTO CELLS

<130> 0660-0166-0XCONT

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<140> 09/497,997
<141> 2000-02-04

<150> PCT/FR98/01740
<151> 1998-08-04

<160> 36

<170> PatentIn version 3.1

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Thr Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr Trp Gly Gln Gly
1 5 10 15

Thr

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<400> 2

Thr Arg Gln Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly Gln Gly
1 5 10 15

Thr

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<400> 3

Thr Arg Gln Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln
1 5 10 15

Gly Thr

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Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr
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Val Ala Tyr Ile Ser Arg Gly Gly Ile Phe Tyr Tyr Glu Asp Ser
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Ile Lys Gly Arg Phe
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Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser
1 5 10 15

Val Lys Gly Arg Phe Thr Ile
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<400> 7

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
20 25 30

<210> 8
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<400> 8

Ala Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
1 5 10

<210> 9
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<400> 9

Cys Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp
1 5 10 15

Thr Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
20 25 30

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<400> 10

Lys
1 5 10 15

Lys Lys Lys Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr
20 25 30

Ser Asp Thr Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg
35 40 45

Ala

<210> 11

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gttctgacta gtgggcactc tgggct

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gagggttcagc tcgagcagtc tggggc

26

<210> 13

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<400> 13

gaggtgaagc tcgaggaatc tggagg

26

<210> 14

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<400> 14

gaagtgcagc tcgaggagtc tgggg

25

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<400> 16

Thr Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr Trp Gly Gln Gly
1 5 10 15

Thr

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Thr Arg Gln Lys Tyr Asn Lys Lys Arg Gly Met Asp Tyr Trp Gly Gln
1 5 10 15

Gly Thr

<210> 18
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<400> 18

Thr Arg Gly Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln
1 5 10 15

Gly Thr

<210> 19
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<400> 19

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe
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<210> 20
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<220>
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<400> 20

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr
20

<210> 21
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<212> PRT
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<400> 21

Val Ala Tyr Ile Ser Arg Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile
1 5 10 15

Lys Gly Arg Phe
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<210> 22
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<400> 22

Val Ala Ala Ile Ser Arg Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser
1 5 10 15

Val Lys Gly Arg Phe Thr Ile
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<210> 23
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Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1 5 10 15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala Val Ala
20 25 30

Tyr

<210> 24

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<400> 24

Lys
1 5 10 15

Lys Lys Lys Ala Ile Ser Arg Gly Gly Tyr Ser Tyr Tyr Leu Asp
20 25 30

Thr Val Lys Arg Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr
35 40 45

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<400> 25

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
1 5 10 15

Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg Leu Glu
20 25 30

Trp Val Ala Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Gln Asp
35 40 45

Ser Ile Lys Gly Arg Phe Thr Ile Ala Arg Asp Asn Ala Lys Asn Thr
50 55 60

Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr
65 70 75 80

Tyr Cys Thr Arg Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly
85 90 95

Gln Gly Thr Ser Val Thr Val Ser Ser
100 105

<210> 26

<211> 107

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<223> SYNTHETIC PEPTIDE

<400> 26

Glu Thr Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
1 5 10 15

Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg
20 25 30

Leu Glu Trp Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr
35 40 45

Ser Asp Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
50 55 60

Asn Thr Leu Ser Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala
65 70 75 80

Met Tyr Tyr Cys Ala Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
85 90 95

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser

100

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<400> 27

Ala Leu Val Lys Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
1 5 10 15

Gly Phe Thr Phe Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Thr Pro
20 25 30

Glu Lys Arg Leu Glu Trp Val Ala Ala Ile Ser Arg Gly Gly Tyr
35 40 45

Ser Tyr Tyr Leu Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
50 55 60

Asn Ala Arg Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu
65 70 75 80

Glu Thr Ala Met Tyr Tyr Cys Ala Arg Thr Ala Arg Ala Thr Trp Asp
85 90 95

Trp Phe Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
100 105 110

<210> 28
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<400> 28

Glu Leu Val Arg Gly Ala Ser Val Lys Val Ser Cys Thr Thr Ser Gly
1 5 10 15

Phe Thr Asn Ile Lys Asp Asp Tyr Ile His Trp Val Arg Gln Arg Pro
20 25 30

Glu Gln Gly Leu Glu Trp Ile Gly Arg Ile Asp Pro Ala Asn Gly Lys
35 40 45

Thr Lys Tyr Ala Pro Lys Phe Gln Asp Lys Ala Thr Ile Thr Ala Asp
50 55 60

Thr Ser Ser Asn Thr Ala Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu
65 70 75 80

Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe
85 90 95

Asp Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala
100 105

<210> 29

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<400> 29

Gly Leu Val Lys Pro Gly Ala Ser Val Lys Val Ser Cys Asn Val Ser
1 5 10 15

Gly Tyr Ser Phe Thr Gly Tyr Phe Met Asn Trp Val Arg Gln Ser His
20 25 30

Gly Lys Ser Leu Glu Trp Val Gly Arg Ile Asn Pro Leu Asn Gly Asp
35 40 45

Thr Phe Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp
50 55 60

Lys Ser Ser Thr Leu Ala His Met Glu Leu Arg Leu Arg Lys Ser Glu
65 70 75 80

Asn Ser Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe
85 90 95

Met Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala

100

105

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Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile Lys
1 5 10 15

Gly

<210> 31
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<400> 31

Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr Val Lys
1 5 10 15

Gly

<210> 32
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<400> 32

Ala Ile Ser Arg Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser Val Lys
1 5 10 15

Gly

<210> 33
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<400> 33

Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr
1 5 10

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<400> 34

Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
1 5 10

<210> 35
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<400> 35

Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr
1 5 10

<210> 36
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<400> 36

Lys
1 5 10 15

Lys Lys Lys Val Ala Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr

20

25

30

Gln Asp Ser Ile Lys Gly Arg Phe Thr Arg Glu Lys Tyr Gly Lys Arg
35 40 45

Gly Met Asp Tyr
50